

PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference PDF 0307/03 (PCT)	FOR FURTHER ACTION see Form PCT/ISA/220 as well as, where applicable, item 5 below.	
International application No. PCT/GB2004/004554	International filing date (day/month/year) 28/10/2004	(Earliest) Priority Date (day/month/year) 28/10/2003
Applicant SYMBIAN SOFTWARE LIMITED		

This International Search Report has been prepared by this International Searching Authority and is transmitted to the applicant according to Article 18. A copy is being transmitted to the International Bureau.

This International Search Report consists of a total of 4 sheets.

☒ It is also accompanied by a copy of each prior art document cited in this report.

1. Basis of the report

- a. With regard to the language, the international search was carried out on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ The international search was carried out on the basis of a translation of the international application furnished to this Authority (Rule 23.1(b)).

- b. ☐ With regard to any nucleotide and/or amino acid sequence disclosed in the international application, see Box No. I.

2. ☐ Certain claims were found unsearchable (See Box II).

3. ☐ Unity of invention is lacking (see Box II).

4. With regard to the title,

☒ the text is approved as submitted by the applicant.

☐ the text has been established by this Authority to read as follows:

5. With regard to the abstract,

☒ the text is approved as submitted by the applicant.

☐ the text has been established, according to Rule 38.2(b), by this Authority as it appears in Box No. IV. The applicant may, within one month from the date of mailing of this international search report, submit comments to this Authority.

6. With regard to the drawings,

- a. the figure of the drawings to be published with the abstract is Figure No. 3

☒ as suggested by the applicant.

☐ as selected by this Authority, because the applicant failed to suggest a figure.

☐ as selected by this Authority, because this figure better characterizes the invention.

- b. ☐ none of the figures is to be published with the abstract.

A. CLASSIFICATION OF SUBJECT MATTER
IPC 7 G06F9/445

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EP0-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 2002/033838 A1 (KRUEGER SCOTT ET AL) 21 March 2002 (2002-03-21) paragraph '0036! - paragraph '0037! paragraph '0040! - paragraph '0044! paragraph '0040! - paragraph '0044! -----	1,4-9
Y	US 6 323 865 B1 (COLLETTI JOHN C) 27 November 2001 (2001-11-27) column 2, line 52 - column 3, line 15 -----	2,3
Y	US 6 323 865 B1 (COLLETTI JOHN C) 27 November 2001 (2001-11-27) column 2, line 52 - column 3, line 15 -----	2,3
A	US 6 405 316 B1 (KRISHNAN GANAPATHY ET AL) 11 June 2002 (2002-06-11) the whole document -----	1-9
A	EP 0 908 817 A (KABUSHIKI KAISHA TOSHIBA) 14 April 1999 (1999-04-14) the whole document -----	1-9
	-/-	

☒ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

* Specie categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone

Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art.

B document member of the same patent family

Date of the actual completion of the international search

25 May 2005

Date of mailing of the international search report

02/06/2005

Name and mailing address of the ISA

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Authorized officer

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 6 298 481 B1 (KOSAKA TAKASHI ET AL) 2 October 2001 (2001-10-02) the whole document	1-9
A	US 5 953 534 A (ROMER ET AL) 14 September 1999 (1999-09-14) the whole document	1-9
A	US 6 463 583 B1 (HAMMOND RICHARD P) 8 October 2002 (2002-10-08) the whole document	1-9

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No

PCT/GB2004/004554

Patent document cited in search report		Publication date	Patent family member(s)	Publication date
US 2002033838	A1	21-03-2002	US 2004243975 A1	02-12-2004
US 6323865	B1	27-11-2001	US 5990907 A	23-11-1999
US 6405316	B1	11-06-2002	US 6141698 A	31-10-2000
			AU 6051798 A	18-08-1998
			WO 9833106 A1	30-07-1998
			US 2005021477 A1	27-01-2005
			US 6073124 A	06-06-2000
EP 0908817	A	14-04-1999	JP 11110194 A	23-04-1999
			EP 0908817 A2	14-04-1999
			US 6665735 B1	16-12-2003
US 6298481	B1	02-10-2001	AU 1519100 A	22-05-2000
			JP 2002529812 T	10-09-2002
			WO 0026780 A1	11-05-2000
			US 2002100028 A1	25-07-2002
US 5953534	A	14-09-1999	NONE	
US 6463583	B1	08-10-2002	AU 2638100 A	14-11-2000
			WO 0062141 A2	19-10-2000

PATENT COOPERATION TREATY

From the
INTERNATIONAL SEARCHING AUTHORITY

To:

see form PCT/ISA/220

PCT

WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY
(PCT Rule 43bis.1)

Date of mailing
(day/month/year) see form PCT/ISA/210 (second sheet)

Applicant's or agent's file reference
see form PCT/ISA/220

FOR FURTHER ACTION
See paragraph 2 below

International application No.
PCT/GB2004/004554

International filing date (day/month/year)
28.10.2004

Priority date (day/month/year)
28.10.2003

International Patent Classification (IPC) or both national classification and IPC
G06F9/445

Applicant
SYMBIAN SOFTWARE LIMITED

1. This opinion contains indications relating to the following items:

- ☒ Box No. I Basis of the opinion
- ☐ Box No. II Priority
- ☐ Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability
- ☐ Box No. IV Lack of unity of invention
- ☒ Box No. V Reasoned statement under Rule 43bis.1(a)(i) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement
- ☐ Box No. VI Certain documents cited
- ☐ Box No. VII Certain defects in the international application
- ☐ Box No. VIII Certain observations on the international application

2. FURTHER ACTION

If a demand for international preliminary examination is made, this opinion will usually be considered to be a written opinion of the International Preliminary Examining Authority ("IPEA"). However, this does not apply where the applicant chooses an Authority other than this one to be the IPEA and the chosen IPEA has notified the International Bureau under Rule 66.1bis(b) that written opinions of this International Searching Authority will not be so considered.

If this opinion is, as provided above, considered to be a written opinion of the IPEA, the applicant is invited to submit to the IPEA a written reply together, where appropriate, with amendments, before the expiration of three months from the date of mailing of Form PCT/ISA/220 or before the expiration of 22 months from the priority date, whichever expires later.

For further options, see Form PCT/ISA/220.

3. For further details, see notes to Form PCT/ISA/220.

Name and mailing address of the ISA:



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**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/GB2004/004554

Box No. I Basis of the opinion

1. With regard to the language, this opinion has been established on the basis of the international application in the language in which it was filed, unless otherwise indicated under this item.
☐ This opinion has been established on the basis of a translation from the original language into the following language , which is the language of a translation furnished for the purposes of international search (under Rules 12.3 and 23.1(b)).
2. With regard to any nucleotide and/or amino acid sequence disclosed in the international application and necessary to the claimed invention, this opinion has been established on the basis of:
 - a. type of material:
☐ a sequence listing
☐ table(s) related to the sequence listing
 - b. format of material:
☐ in written format
☐ in computer readable form
 - c. time of filing/furnishing:
☐ contained in the international application as filed.
☐ filed together with the international application in computer readable form.
☐ furnished subsequently to this Authority for the purposes of search.
3. ☐ In addition, in the case that more than one version or copy of a sequence listing and/or table relating thereto has been filed or furnished, the required statements that the information in the subsequent or additional copies is identical to that in the application as filed or does not go beyond the application as filed, as appropriate, were furnished.
4. Additional comments:

**WRITTEN OPINION OF THE
INTERNATIONAL SEARCHING AUTHORITY**

International application No.
PCT/GB2004/004554

**Box No. V Reasoned statement under Rule 43b/s.1(a)(i) with regard to novelty, inventive step or
Industrial applicability; citations and explanations supporting such statement**

1. Statement

Novelty (N)	Yes: Claims	2-5
	No: Claims	1,6-9
Inventive step (IS)	Yes: Claims	
	No: Claims	1-9
Industrial applicability (IA)	Yes: Claims	1-9
	No: Claims	

2. Citations and explanations

see separate sheet

Re Item V

1. Reference is made to the following documents:

D1: US 2002/033838 A1 (KRUEGER SCOTT ET AL) 21 March 2002 (2002-03-21)
D2: US-B1-6 323 865 (COLLETTI JOHN C) 27 November 2001 (2001-11-27)

2. The present application does not meet the requirements of Article 33(1) PCT, because the subject-matter of claims 1,6-9 is not new in the sense of Article 33(2) PCT.

- 2.1 Document D1 discloses the subject-matter of claim 1 :

A method of providing a link between an application program and a function in a dynamic link library of a computing device (page 3, paragraph [0036]), the method comprising :
providing a remapping component (page 4, paragraph [0042] : "impersonation process") arranged to provide, in response to a call by the application program to link to the function at an address location in a first dynamic link library, an address location for the function in a further dynamic link library, so as to enable the application program to link directly to the function in the further dynamic link library (page 4, paragraphs [0042],[0043] : "The impersonation process then substitutes this address...", "...it instead finds the address of the substitute function").

The subject-matter of claim 1 is therefore not new (Article 33(1) and (2) PCT).

For the same reasons, the subject-matter of corresponding claims 8,9 is also not new (Article 33(1) and (2) PCT).

- 2.2 The subject-matter of dependent claims 6,7 is not new, since D1 discloses that the link between application program and dynamic link library can be arranged both by ordinal and by name (page 3, paragraph [0036]).

3. The present application does not meet the requirements of Article 33(1) PCT, because the subject-matter of claims 2-5 does not involve an inventive step in the sense of Article 33(3) PCT.
- 3.1 The subject-matter of dependent claims 2,3 does not involve an inventive step : D1 discloses the possibility of using relocation instructions to insert addresses in the import table of an application. However, D2, which also deals with remapping DLL functions, discloses the solution of claims 2 and 3, namely inserting addresses in the export table of the DLL (see D2, column 2, lines 58-63, column 3, lines 11-15).
- 3.2 The subject-matter of dependent claims 4,5 does not involve an inventive step, since it would be obvious that the method of claim 1 can be used for a plurality of dynamic link libraries.